Patent claims

1. A process for enriching trehalose from solutions, in which the enrichment is performed using an adsorbent, which comprises the adsorbent being an aluminosilicate.

2. The process as claimed in claim 1, wherein the aluminosilicate is a zeolite.

3. The process as claimed in claim 1 or 2, wherein the trehalose is adsorbed to the aluminosilicate.

4. The process as claimed in one of claims 1 to 3, wherein the zeolite is selected from the group consisting of FAU, BEA, DON, EMT, CFI, MOR, MAZ and OFF.

5. The process as claimed in one of claims 1 to 4, wherein the adsorbent is used in the course of a chromatographic process.

6. The process as claimed in one of claims 1 to 5, wherein the solution originates from an enzymatic trehalose synthesis.

7. A process for enriching trehalose from fermentation broths, comprising the steps of separating off solids and enriching the trehalose using an adsorbent, which comprises the adsorbent being an aluminosilicate.

8. A process as claimed in claim 7, wherein the aluminosilicate is a zeolite.

9. The process as claimed in claim 7, wherein at least one further product of value apart from trehalose is separated off from the fermentation broth.

10. The process as claimed in one of claims 7 to 9, wherein the fermentation broth originates from a fermentation with at least one microorganism from the group consisting of Saccharomyces spec., Candida spec., Escherichia coli; Corynebacterium spec., Corynebacterium glutamicum, Pseudomonas spec.; Nocardia spec., Brevibacterium spec., Arthrobacter spec., Streptomyces spec.; Microbacterium spec., Aspergillus spec., Bacillus spec., Pichia spec. and Folibasidium spec.

11. The process as claimed in one of claims 7 to 10, wherein the trehalose is present in the fermentation broth at a concentration of less than 15 percent by weight measured on the dry weight of the fermentation broth.

12. The process as claimed in one of claims 1 to 11, wherein the process comprises at least one further step from the group consisting of activated carbon treatment, ultrafiltration and ion-exchange treatment.